

2014 AIChE Annual Meeting
 Atlanta, GA
 Rapid Fire Oral Presentations

Sunday, November 16, 2014

Time	Stage 1	Stage 2
2:00pm	6ab: Understanding of Polymers in Confined Thin Films and Bulk Membranes: Fluorescence Based Approach Shudipto Konika Dishari, The Pennsylvania State University	6dp: Design, Optimization, Monitoring and Control of Continuous Pharmaceutical Manufacturing Plant for QbD and PAT Based Next Generation of Efficient Manufacturing Ravendra Singh, Rutgers University
2:05pm	6ac: Protein-Protein Interactions in Disease and Therapy Kyle M. Doolan, University of Delaware	6dq: Materials and Systems Design for Healthcare and Energy Applications Meenesh R. Singh, Lawrence Berkeley National Laboratory
2:10pm	6ad: Doped Metal Oxides – Increased Functionality for Energy Applications James Dorman, University of Konstanz	6dy: New Materials for Chalcogenide Based Solar Cells B. Selin Tosun, University of Washington
2:15pm	6ah: Programmable Dynamic Surfaces as Information Carriers Fateme Sadat Emami, Northwestern University	6ec: Constructing, Screening, and Evolving Therapeutic Proteins James A. Van Deventer, Massachusetts Institute of Technology
2:20pm	6be: Design of Catalysts for Energy Conversion and Storage Yijin Kang, Argonne National Laboratory	6ee: Bioengineering New Solutions for Pediatric Diseases: Platforms to Improve the Treatment of Brain Tumors and Juvenile Diabetes Omid Veisheh, Massachusetts Institute of Technology
2:25pm	6bf: Investigating the Selective Removal of Anions and Cations in Electrodialysis / Electrodialysis Reversal (ED/EDR) Leila Karimi, New Mexico State University	6em: Multi-Level Engineering Approaches for Manipulating Plant Metabolism in Culture Sarah A. Wilson, University Of Massachusetts Amherst
2:30pm	6bo Synthetic Approaches to Control Cell Fate and Function Albert J Keung, Boston University/HHMI	6en: Polyhedral Oligomeric Silsesquioxane (POSS)-Based Hybrid Nanostructured Thermoplastic Polyurethanes (TPUs) -Synthesis, Processing and Biomedical Applications Jian Wu, University of Pittsburgh
2:35pm	6bp: Towards a Sustainable Energy Future: Modest – Model Aided Optimization and Design of Energy Systems' Toolkit N.V.S.N. Murthy Konda, National Energy Technology Laboratory	6eq: Production of Furan-Based Products from Lignocellulosic Biomass Chang Geun Yoo, University of Wisconsin, Madison
2:40pm	6bq: The Physical Cell: Impact of Mechanics and Rheology on Cellular Function Elena F. Koslover, Stanford University	6eu: Rational Engineering of Microbes for Metabolite Overproduction Kang Zhou, Massachusetts Institute of Technology
2:45pm	6bs: Nanotechnology-Based Breakthroughs in Biology and Energy Ramsey Kraya, Johns Hopkins University	6ex: Hydrogen Electrocatalysis: from Mechanistic Study to Advanced Catalyst Development Wenchao Sheng, University of Delaware

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2:50pm	<p>6bu: Single-Molecule Visualization of Corona Phase Molecular Recognition Markita Landry, Massachusetts Institute of Technology</p>	<p>6ey: Polymer Supported Catalysts for Heterogeneous Catalysis Feng (Ryan) Wang, Max-Planck-Institut für Kohlenforschung</p>
2:55pm	<p>6ca: Design and Development of Advanced Materials for Energy Storage and Conversion Qi Lu, Columbia University</p>	<p>6fa: Design of Biomimetic Functional Nanomaterials to Study Integral Membrane Proteins Amit Vaish, University of Delaware</p>
3:00pm	<p>6cc: Electrochemical Reduction of Carbon Dioxide with Highly Dispersed Metal Nanoparticles Karthish Manthiram, UC Berkeley</p>	<p>6fd: Packings and Assemblies for Continuous Families of Polyhedra Daphne Klotsa, University of Cambridge</p>
3:05pm	<p>6cn: Effect of Physical and Chemical Properties of Nanoparticles on Small Molecule Release from Liposomes Maria O. Ogunyankin, University of Minnesota</p>	<p>6q: Graphene Electrode-Based ZnO Nanowire Hybrid Solar Cells Sehoon Chang, Massachusetts Institute of Technology</p>
3:10pm	<p>6cs: Liver Regenerative Medicine and in Vivo Molecular Imaging for the Study of in Vivo Liver Organogenesis, Liver Disease and Development of New Diagnostics and Therapeutics Natesh Parashurama, University of California, San Francisco</p>	<p>6r: Ion-Containing Block Copolymer for Energy Storage and Conversion: From Humid Air to Liquid Water Xi Chelsea Chen, Lawrence Berkeley National Laboratory</p>
3:15pm	<p>6d: Transforming the Art of Catalyst Preparation into a Science Ana C. Alba-Rubio, University of Wisconsin, Madison</p>	<p>6s: Design of Thermodynamically Consistent Coarse-Grained Models in Soft Matter Alexandros Chremos, Imperial College London</p>
3:20pm	<p>6dc: Branched Wormlike Micelles Under Dynamic Flow Conditions Using Spatiotemporally-Resolved Small Angle Neutron Scattering Simon A. Rogers, University of Delaware</p>	<p>6fe: Co-culture Based Modular Engineering for Aromatic and Aromatic-Derived Compound Production in Escherichia coli Gregory Stephanopoulos, MIT</p>
3:25pm	<p>6do: Scalable Nanofabrication of Functional Architectures through Hybrid Lithography Jonathan P. Singer, Yale University</p>	<p>6bs: Nanotechnology-Based Breakthroughs in Biology and Energy Ramsey Kraya, Johns Hopkins University</p>
3:30pm	<p>6m: Multi-Objective Modeling, Simulation, and Optimization for Economically and Environmentally Conscious Decision Makings Tianxing Cai, Lamar University</p>	